



**DECLARATION AND POWER OF  
ATTORNEY FOR PATENT  
APPLICATION  
(37 CFR 1.63)**

☒ Declaration  
Submitted  
with Initial  
Filing

OR

☐ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16(e))  
required)

Attorney Docket Number 42P17399

First Named Inventor Hsuan-Wen Wang

**COMPLETE IF KNOWN**

Application Number

Filing Date

Art Unit

Examiner Name

**As a below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**FLOW CONTROL HUB HAVING SCOREBOARD MEMORY**

*(Title of the Invention)*

the specification of which

☒ is attached hereto.

OR

☐ was filed on \_\_\_\_\_ as United States Application Number \_\_\_\_\_  
or PCT International Application Number \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

**Prior Foreign Application(s):**

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached?                                 |
|-------------------------------------|---------|----------------------------------|--------------------------|--|
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

Direct all correspondence to: ☒ Customer Number or Bar Code Label



\*08791\*

or ☐ Correspondence address below

|         |                          |          |                |
|---------|--------------------------|----------|----------------|
| Name    |                          |          |                |
| Address |                          |          |                |
| City    | State                    | Zip Code |                |
| Country | Telephone (503) 684-6200 | Fax      | (503) 684-3245 |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Hsuan-Wen Wang  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*  
 Inventor's Signature *Hsuan-wen Wang* Date 7/17/2003  
 Residence Sunnyvale, California USA Citizenship Taiwan  
*(City, State, Country)* *(Country)*  
 Mailing Address 929 East El Camino Real #438  
Sunnyvale, California 94087 USA

**NAME OF SECOND INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Jaisimha Bannur  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Sunnyvale, California USA Citizenship USA  
*(City, State, Country)* *(Country)*

Mailing Address 417 Firebird Way  
Sunnyvale, California 94087 USA

**NAME OF THIRD INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Anujan Varma  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Santa Cruz, California USA Citizenship India  
*(City, State, Country)* *(Country)*

Mailing Address 519 Hagar Court  
Santa Cruz, California 95064 USA

**NAME OF FOURTH INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: \_\_\_\_\_  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_  
*(City, State, Country)* *(Country)*

Mailing Address \_\_\_\_\_  
\_\_\_\_\_

**NAME OF FIFTH INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: \_\_\_\_\_  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_  
*(City, State, Country)* *(Country)*

Mailing Address \_\_\_\_\_

**NAME OF SIXTH INVENTOR:**

☐ A petition has been filed for this undersigned inventor

Full Name:

\_\_\_\_\_  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature

Date

Residence

Citizenship

\_\_\_\_\_  
*(City, State, Country)*

\_\_\_\_\_  
*(Country)*

Mailing Address

**NAME OF SEVENTH INVENTOR:**

☐ A petition has been filed for this undersigned inventor

Full Name:

\_\_\_\_\_  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature

Date

Residence

Citizenship

\_\_\_\_\_  
*(City, State, Country)*

\_\_\_\_\_  
*(Country)*

Mailing Address

**NAME OF EIGHTH INVENTOR:**

☐ A petition has been filed for this undersigned inventor

Full Name:

\_\_\_\_\_  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature

Date

Residence

Citizenship

\_\_\_\_\_  
*(City, State, Country)*

\_\_\_\_\_  
*(Country)*

Mailing Address

**NAME OF NINTH INVENTOR:**

☐ A petition has been filed for this undersigned inventor

Full Name:

\_\_\_\_\_  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature

Date

Residence

Citizenship

\_\_\_\_\_  
*(City, State, Country)*

\_\_\_\_\_  
*(Country)*

Mailing Address

## Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP, a firm including: Ramin Aghevli, Reg. No. 43,462; William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Cory G. Claassen, Reg. No. 50,296; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; George L. Fountain, Reg. No. 36,374; Adam Furst, Reg. No. 51,710; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. 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No. 31,710, my patent attorney, also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Jay P. Beale, Reg. No. 50,901; Shireen I. Bacon, Reg. No. 40,494; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert H. Chang, Reg. No. 48,765; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert A. Diehl, Reg. No. 40,992; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg. No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; David C. Lundmark, Reg. No. 42,815; Anthony Martinez, Reg. No. 44,223; Larry Mennemeier, Reg. No. 51,003; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Kathy J. 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No. 39,435; my patent attorneys and my patent agents, of INTEL CORPORATION; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

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(37 CFR 1.16(e))  
required)

Attorney Docket Number 42P17399

First Named Inventor Hsuan-Wen Wang

**COMPLETE IF KNOWN**

Application Number

Filing Date July 18, 2003

Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

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*(Title of the Invention)*

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Prior Foreign Application(s):

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached?                                 |
|-------------------------------------|---------|----------------------------------|--------------------------|--|
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

Direct all correspondence to: ☒ Customer Number or Bar Code Label



\*08791\*

or ☐ Correspondence address below

|         |                          |          |                |
|---------|--------------------------|----------|----------------|
| Name    |                          |          |                |
| Address |                          |          |                |
| City    | State                    | Zip Code |                |
| Country | Telephone (503) 684-6200 | Fax      | (503) 684-3245 |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Hsuan-Wen Wang  
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Sunnyvale, California USA Citizenship Taiwan  
(City, State, Country) (Country)

Mailing Address 929 East El Camino Real #438  
Sunnyvale, California 94087 USA

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this undersigned inventor

Full Name:

Jaisimha Bannur

(First, Middle (if any), Family Name (or Surname), and Suffix (if any))

Inventor's Signature

J. G. Ban

Date

7/18/03

Residence Sunnyvale, California USA

(City, State, Country)

Citizenship USA

(Country)

Mailing Address 1417 Firebird Way  
Sunnyvale, California 94087 USA

NAME OF THIRD INVENTOR: ☐ A petition has been filed for this undersigned inventor

Full Name:

Anujan Varma

(First, Middle (if any), Family Name (or Surname), and Suffix (if any))

Inventor's Signature

Date

Residence Santa Cruz, California USA

(City, State, Country)

Citizenship India

(Country)

Mailing Address 519 Hagar Court  
Santa Cruz, California 95064 USA

NAME OF FOURTH INVENTOR: ☐ A petition has been filed for this undersigned inventor

Full Name:

(First, Middle (if any), Family Name (or Surname), and Suffix (if any))

Inventor's Signature

Date

Residence

(City, State, Country)

Citizenship

(Country)

Mailing Address

NAME OF FIFTH INVENTOR: ☐ A petition has been filed for this undersigned inventor

Full Name:

(First, Middle (if any), Family Name (or Surname), and Suffix (if any))

Inventor's Signature

Date

Residence

(City, State, Country)

Citizenship

(Country)

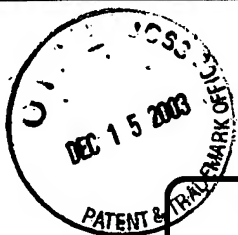
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Docket No. 42P17399



## Appendix A

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**As a below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**FLOW CONTROL HUB HAVING SCOREBOARD MEMORY**

*(Title of the Invention)*

the specification of which

☒ is attached hereto.

OR

☐ was filed on 07/18/2003 as United States Application Number \_\_\_\_\_  
or PCT International Application Number \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached?                                 |
|-------------------------------------|---------|----------------------------------|--------------------------|--|
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

Direct all correspondence to:

☒ Customer Number  
or Bar Code Label



\*08791\*

or ☐ Correspondence address below

|         |                          |          |                |
|---------|--------------------------|----------|----------------|
| Name    |                          |          |                |
| Address |                          |          |                |
| City    | State                    | Zip Code |                |
| Country | Telephone (503) 684-6200 | Fax      | (503) 684-3245 |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Hsuan-Wen Wang  
*(First, Middle [if any], Family Name (or Surname), and Suffix [if any])*

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Sunnyvale, California USA Citizenship Taiwan  
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**NAME OF SECOND INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Jaisimha Bannur  
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

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Mailing Address 417 Firebird Way  
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**NAME OF THIRD INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: Anujan Varma  
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])

Inventor's Signature Anujan Varma Date 7/17/2003

Residence Santa Cruz, California USA Citizenship India  
(City, State, Country) (Country)

Mailing Address 519 Hagar Court  
Santa Cruz, California 95064 USA

**NAME OF FOURTH INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: \_\_\_\_\_  
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_  
(City, State, Country) (Country)

Mailing Address \_\_\_\_\_  
\_\_\_\_\_

**NAME OF FIFTH INVENTOR:** ☐ A petition has been filed for this undersigned inventor

Full Name: \_\_\_\_\_  
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_  
(City, State, Country) (Country)

Mailing Address \_\_\_\_\_  
\_\_\_\_\_

## Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP, a firm including: Ramin Aghevli, Reg. No. 43,462; William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Cory G. Claassen, Reg. No. 50,296; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; George L. Fountain, Reg. No. 36,374; Adam Furst, Reg. No. 51,710; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. 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No. 31,710, my patent attorney, also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Jay P. Beale, Reg. No. 50,901; Shireen I. Bacon, Reg. No. 40,494; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert H. Chang, Reg. No. 48,765; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert A. Diehl, Reg. No. 40,992; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg. No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; David C. Lundmark, Reg. No. 42,815; Anthony Martinez, Reg. No. 44,223; Larry Mennemeier, Reg. No. 51,003; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Kathy J. 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No. 39,435; my patent attorneys and my patent agents, of INTEL CORPORATION; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.